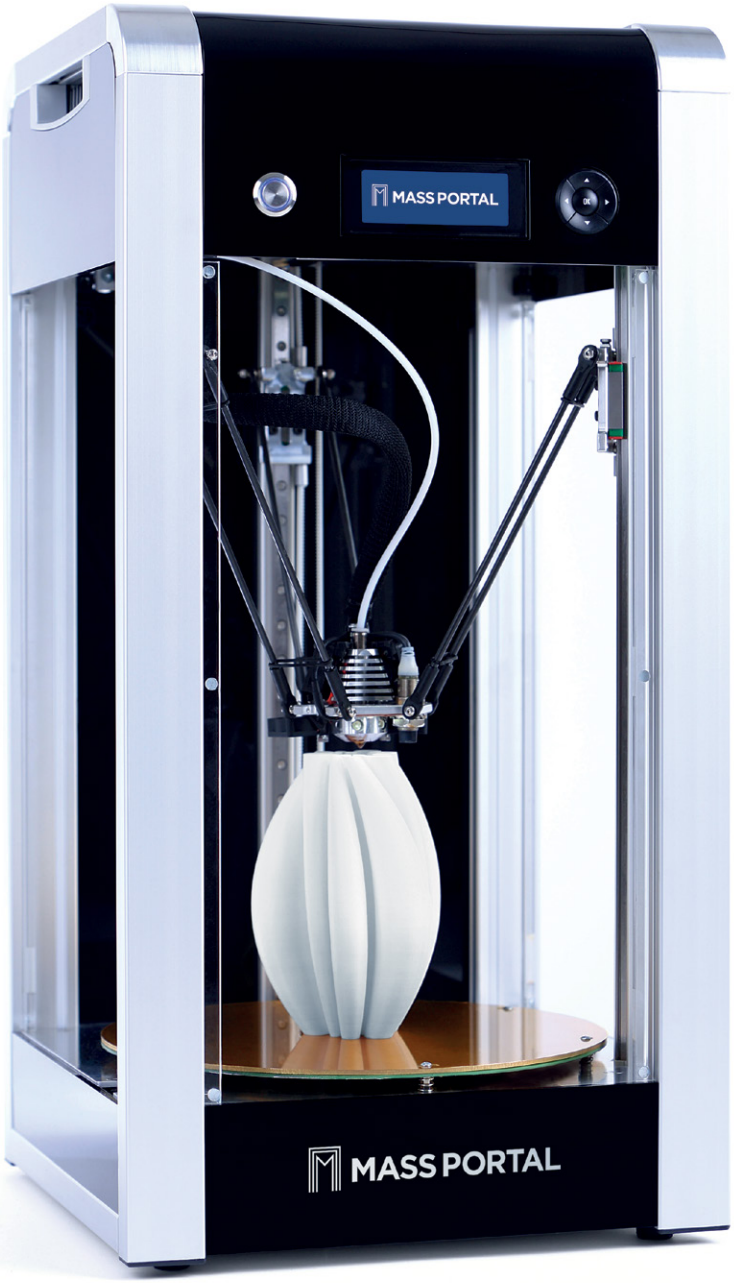
MASS PORTAL®

# Pharaoh ED™

## Delta 3D Printer

**Smooth, quiet and fast desktop 3D printer — for office, school and home**

- Automatic calibration
- High-quality printing
- Materials versatility




### Designed for innovation

Mass Portal™ 3D printers are designed for heavy duty printing day in and out. It's the machine that helps you create things that have only existed in your imagination before. With style.

### Convenience for daily use

At the end of the day, it's the basics that matter. Basics like precise, smooth and quiet operation, fast printing at a very low vibration level. Small footprint of the printer and large build volume. Sturdy frame, that will keep the mechanics precise over time, and allow for real world use in schools and other demanding places. Industrial grade components like precision linear motion guides. Time-saving automatic calibration.

### Balance of elements

Mass Portal™ printers are the right balance of basics done right and quality craftsmanship. Designed to last and hand built in Latvia, with parts sourced in the EU.

**MassPortal.com**

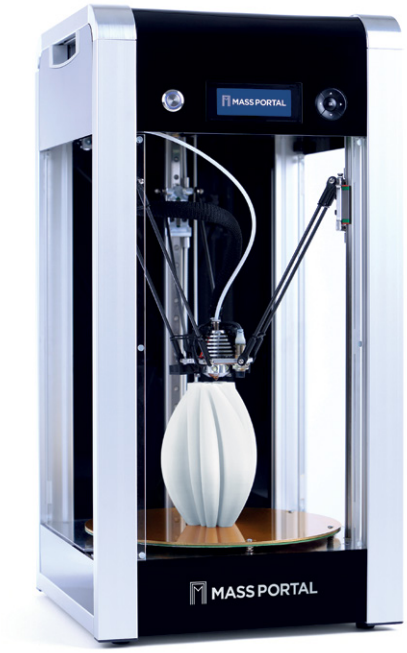
### Delta technology advantage

Delta robot mechanics have a number of advantages for a mainstream 3D printer. Compared to the more usual, so-called Cartesian, printer mechanics, it improves the most basic elements of daily printing experience — it allows faster printing with less noise and less vibration. Although that does not sound high-tech, these are the most important factors of comfort for heavy-duty daily printing. It allows for convenient operation of the printer — and especially, a number of printers simultaneously — in a busy classroom, crowded office or quiet home.

MASS PORTAL®

# Pharaoh ED™

## Delta 3D Printer




| | | |
|---|---|---|
| **Build area** | Diameter: max 20 cm<br>Height: 20 cm | |
| **Dimensions** | *Printer*<br>Width: 32 cm<br>Depth: 31 cm<br>Height: 63 cm<br>Weight: 17 kg | *Shipping*<br>Width: 40 cm<br>Depth: 40 cm<br>Height: 75 cm<br>Weight: 25 kg |
| **Printer** | Delta robota mechanics; precision linear guides; rigid aluminium frame<br>Enclosed printing chamber with removable front and side doors<br>LED illumination of printing chamber and printed object<br>Open source firmware, based on Repetier-Firmware<br>LCD screen and navigation button for standalone operation, hardware pause button<br>Electricity consumption: max 360W; nominal 200–230W | |
| **Printing materials** | Printing technology: Fused Filament Fabrication<br>Printing material: 1,75 mm filament; compatible with PET, PLA, ABS, HIPS, TPU<br>Experimental printing with other thermoplastic filaments<br>Flexibility to use materials from different suppliers<br>Compatible with coposite materials with wood, metal, carbon fibre and other infill | |
| **Printing** | All-metal hotend: Mass Portal™ designed Pharaoh™ printing head<br>Layer thickness: 0,01–0,6 mm (depending on nozzle diameter and material)<br>Printing temperature up to 300° C<br>Heated print bed: up to 110° C<br>Printing speed: up to 300 mm/s; High-Precision mode: up to 160 mm/s<br>Nozzle diameter: 0,4 mm (supplied); optional — 0,25mm; 0,5mm; 0,7 mm<br>Automatic calibration | |
| **Compatibility** | OS support: Windows (XP SP3 +); Mac OS X (10.6+); Linux<br>Repetier-Host/Slic3r — recommended host/slicing software (optional: Simplify 3D)<br>3D file formats: STL, OBJ<br>Open source firmware, based on Repetier-Firmware<br>Connections: Wi-Fi, USB 2.0, Full-size SD card reader | |
| **In the box** | • Mass Portal Pharaoh ED 3D printer with USB cable and power cord<br>• Plywood box can be used as cabinet with two shelfs for filament storage<br>• Sample printing material: Colorfabb _XT black<br>• Printed user manual<br>• 8GB SD card with sample print files | |

MASS PORTAL®

3/11 Pulka str., Riga, LV-1007, LATVIA
Phone +371 255 00 393
E-mail sales@massportal.com
**MassPortal.com**

28.01.2015 — VERSION 1.4